

No.



200100058

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

California Cooperative Rice Research Foundation, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.


NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 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2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 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2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054, 3055, 3056, 3057, 3058, 3059, 3060, 3061, 3062, 3063, 3064, 3065, 3066, 3067, 3068, 3069, 3070, 3071, 3072, 3073, 3074, 3075, 3076, 3077, 3078, 3079, 3080, 3081, 3082, 30

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER California Cooperative Rice Research Foundation, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 94-Y-615	3. VARIETY NAME M-205
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Rice Experiment Station P. O. Box 306 955 Butte City Hwy. Biggs, CA 95917-0306		5. TELEPHONE (Include area code) 530-868-5481	FOR OFFICIAL USE ONLY PVPO NUMBER 200100058
6. FAX (include area code) 530-868-1730		FILING DATE 12/28/2000	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Non-profit organization	8. IF INCORPORATED, GIVE STATE OF INCORPORATION CA	9. DATE OF INCORPORATION 1912	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Dr. Kent S. McKenzie Director Rice Experiment Station P. O. Box 306 Biggs, CA 95917-0306			FILING AND EXAMINATION FEES: \$ 2705 DATE 12/28/2000 CERTIFICATION FEE: \$ 432.00 DATE 10-5-04
11. TELEPHONE (Include area code) 530-868-5481	12. FAX (Include area code) 530-868-1730	13. E-MAIL ksmckenzie@crrf.org	14. CROP KIND (Common Name) Rice
15. GENUS AND SPECIES NAME OF CROP Oryza sativa L.		16. FAMILY NAME (Botanical) Gramineae	17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450; made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office))		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input checked="" type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input type="checkbox"/> NO (If "no," go to item 22)	
20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER 		SIGNATURE OF OWNER (Blank)	
NAME (Please print or type) Kent S. McKenzie		NAME (Please print or type) (Blank)	
CAPACITY OR TITLE Director	DATE 12/21/00	CAPACITY OR TITLE (Blank)	DATE (Blank)

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

ITEM

- 18a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

M-205 was jointly released by California Cooperative Rice Research Foundation, California Agriculture Experiment Station, and USDA-ARS March 21, 2000. Foundation seed was first distributed to California rice seed producers April 11, 2000 for planting in 2000.

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

M-205 was issued US Patent No. 6,492,582 issued 10 Dec. 2002

RAO 9/4/2004

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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34T-470 (6-98) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (03-96) which is obsolete.

'M-205' Rice**18a. Exhibit A. Origin and Breeding History of the Variety****1) Genealogy**

M-205 is an early, semidwarf, California glabrous, Calrose quality medium-grain experimental line that has been evaluated in large plot yield tests since 1994. It was tested under the experimental designation 94-Y-615. It is an early selection from the 1989-1990 winter greenhouse cross R16377 and has the pedigree 90-Y-63/M202, thus the full pedigree is M-201/M7//M-201/3/M-202. M-205 was developed by the California Cooperative Rice Research Foundation (CCRRF) at the Rice Experiment Station (RES), Biggs, CA. All varieties used to develop M-205 are considered Calrose medium-grains with semidwarf height. 90-Y-63 was an early experimental line tested in statewide tests in 1989 and 1990 and has the pedigree M-201/M7//M-201. M-202 is the only variety currently in commercial production in California. M-205 is the product of modified pedigree breeding. Early panicle selections from the 1991 F₂ nursery were bulked 6 panicles per row in the 1991-1992 Hawaii Winter Nursery. Panicle selections grouped from the R16377 Hawaii rows were planted in the 1992 RES individual rows. The 1992 row 9161 was identified as the source of 1993 small plot 1165 which produced seed for 94-Y-615 entry in the RES Preliminary Yield Trial. It has been tested in the University of California Cooperative Extension (UCCE) Statewide Yield Tests, 1995 to 1999.

2) Selection and multiplication

M-205 selection criteria were for shorter height and improved resistance to lodging. Panicle selections were first taken for headrows produced in 1995 and continued through 1999. The 1995 panicles were initially purified in the 1995-1996 Hawaii Winter Nursery and in 1996 headrows at RES. Panicle selections were taken in 1997 from the bulk seed of the 1996 headrows and advanced to the 1997-1998 Hawaii Winter Nursery. The 1997-1998 Hawaii rows were bulked to plant the 1998 breeder seed and Hawaii panicle used to plant 158 headrows. The 1998 breeder seed was used to plant the 1999 foundation seed and the bulk of the headrows planted the 1999 breeder production area. The 1998 headrow panicle selections were used to plant 400 headrows in 1999.

3) Uniformity and stability

Panicle selections were first taken for headrow production in 1995 and continued through 1998. During the headrow production any putative segregating or variant rows were removed from the field. Visual inspection (seedling vigor, heading date, plant height, grain shape and size, etc.) of headrows were used as criteria to confirm cultivar purity. This is standard procedure at RES to monitor and maintain breeder seed of the 13 currently grown California rice varieties. M-205 was approved for certification by the California Crop Improvement Association in 2000. Classes of seed will be breeder, foundation, registered, and certified seed produced in California. Foundation seed can be used to produce foundation seed if necessary and headrow and breeder seed will be produced in foundation fields as necessary to maintain cultivar purity. M-205 has been observed in seed increase and production fields for five generations (1996 to 1999) and found to be uniform and stable.

4) **Variants**

The breeder, foundation, and headrows were rogued multiple times and off-types, putative out crosses, and other visual variants were removed from the field. These included later, taller, smooth medium-grains, red apiculus longer medium-grain out crosses, pubescent medium-grain of M-205 maturity, smooth tetraploids and one late fat short-grain in a total frequency of 0.15% in the 1998 breeder field and 0.03% in 1999 foundation field.

18b. Exhibit B. Statement of Distinctiveness1) **Variety Differences**

M-205 is a semidwarf, early maturing, medium-grain being released to serve the Calrose medium-grain market. "Calrose" was the founding California medium-grain rice variety, the ancestor of California medium-grains, and is now recognized as a market class term for California medium-grain rice. Comparisons for evaluation purposes were made to M-202, which is the predominant California medium grain. M-205 is shorter in height and has improved resistance to lodging when compared to M-202. M-205 is most similar to M-202 and is distinguished by it's shorter height and improved resistance to lodging.

2) **Statistical data**

Agronomic characteristics: Agronomic characteristics (seedling vigor through yield) were collected in multiple location University of California Cooperative Extension (UCCE) Statewide Yield Tests in 1995 to 1999 are summarized in Table 1. M-205 is significantly shorter in height and improved lodging resistance when compared to M-202. Tables 2 & 3 show individual year statistical evidence collected from replicated large plot yield tests.

Table 1. Summary of agronomic characteristics for M-202 and M-205, 1994 to 1999.

Character	M-202	M-205
Seedling vigor score†	4.4	4.1
Days 50% heading	86	89
Plant height (cm)	98	93*
Lodging (%)	49	16*
Blanking – Greenhouse	23	26
Blanking – Davis	11	8
Blanking – San Joaquin	21	12
Overall blanking mean	18	15
Stem rot (score)	6.0	5.4
Harvest moisture (%)	18.9	18.6
Yield (lb/acre @ 14%)	8448	9490*
Total milled rice (%)	67.2	68.9
Whole kernel milled rice (%)	61.0	61.8
Brown Rice 1000 grain wt (gms)	24.0	25.2
Brown Rice length (cm)	6.2	6.4
Brown Rice width (cm)	3.0	2.8
Ratio (L/W)	2.06	2.29

† Seedling vigor visual score where 1=poor and 5=excellent.

* Significantly different at the 0.05 probability level.

Table 2. Plant heights (cm) of M-202 and M-205 from 1995 to 1999 at the Rice Experiment Station, Biggs, CA.

Year	M-202 (cm)	M-205 (cm)	LSD
1995	94*	84	5
1996	104*	97	5
1997	97*	91	5
1998	101*	95	4
1999	94*	90	3

* Significantly different at the 0.05 probability level.

Table 3. Percent lodging of M-202 and M-205 from 1995 to 1999 at the Rice Experiment Station, Biggs, CA.

Year	M-202 (%)	M-205 (%)	LSD
1995	10*	1	3
1996	35*	6	11
1997	16*	2	12
1998	80*	13	18
1999	27*	5	13

* Significantly different at the 0.05 probability level.

18c. Exhibit C. Objective Variety Description – Rice

See attached US Plant Variety Protection form “Objective Variety Description – Rice (*Oryza sativa* L).”

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EXHIBIT C
(RICE)

U.S. DEPARTMENT OF AGRICULTURE
PLANT VARIETY PROTECTION OFFICE, AMS, USDA
NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500
10301 BALTIMORE Blvd.
BELTSVILLE, MD 20705

OBJECTIVE VARIETY DESCRIPTION

RICE (*Oryza sativa*)

Name of Applicant(s)	Temporary Designation	Variety Name
California Cooperative Rice Research Foundation, Inc.	94-Y-615	M-205
Address (Street and No. or R.F.D. No., City, State, and Zip Code)		FOR OFFICIAL USE ONLY
Rice Experiment Station 955 Butte City Hwy. P. O. Box 306 Biggs, CA 95917-0306		PVPO Number

Place the appropriate number that describes the character of this variety in the spaces provided below. These numbers are also code numbers corresponding to descriptors developed by IBGR-IRRI Rice Advisory Committee and the US Rice Crop Advisory Committee. Breeders will demonstrate novelty more readily by describing as many characters as is possible.

1. MATURITY - Days to Heading (Seeding to 50% Heading):

- A. South: (Location: _____) at _____ kg/ha (Nitrogen rate)
- _____ Number of days
- _____ Days earlier than Check variety: _____
- _____ Days same as Check variety: _____
- _____ Days later than Check variety: _____
- _____ Maturity Class (50% heading) - South: 1 = Very early (less than 86 days) 2 = Early (86 - 100)
3 = Intermediate (101 - 115) 4 = Late (more than 115)
- B. California: (Location: Biggs, CA) at 135 kg/ha (Nitrogen rate)
- 89 Number of days (fallowed land)
- _____ Days earlier than Check variety: _____
- _____ Days same as Check variety: _____
- 3 Days later than Check variety: M-202
- 2 Maturity Class (50% heading) - California: 1 = Very early (less than 91 days) 2 = Early (91 - 97)
3 = Intermediate (98 - 104) 4 = Late (more than 104 days)

2. CULM:

- 1 ANGLE (Degrees from Perpendicular after Flowering:

1 = Erect (less than 30°) 3 = Intermediate (about 45°) 5 = Open (about 60°)
7 = Spreading (more than 60° but the culms do not rest on the ground)
9 = Procrumbent (the culm or its lower part rests on the ground surface)

LENGTH

9 3 0 cm (Soil level to top of extended panicle on main stem)5 0 cm Shorter than Check variety: M-202

Length same as Check variety: _____

_____ cm Longer than Check variety: _____

1 HEIGHT CLASS: 1 = Semidwarf 2 = Short 3 = Medium 4 = Tall1 INTERNODE COLOR (After flowering): 1 = Green 2 = Light Gold 3 = Purple lines 4 = Purple1 STRENGTH (Lodging resistance): 1 = Strong (no lodging) 3 = Moderately strong (most plants leaning)
5 = Intermediate (most plants lodged) 7 = Weak (most plants flat)
9 = Very weak (all plants flat)

3. FLAG LEAF (After Heading):

2 7 5 cm LENGTH 1 1 0 mm WIDTH1 PUBESCENCE: 1 = Glabrous 2 = Intermediate 3 = Pubescent1 LEAF ANGLE (after heading): 1 = Erect 3 = Intermediate 5 = Horizontal 7 = Descending2 2 BLADE COLOR: 1 = Pale Green 2 = Green 3 = Dark Green 4 = Purple tips
5 = Purple margins 6 = Purple blotch 7 = Purple1 BASAL LEAF SHEATH COLOR: 1 = Green 2 = Purple lines 3 = Light purple 4 = Purple

4. LIGULE:

_____ mm LENGTH (from base of collar to the tip, at late vegetative stage)

1 COLOR (Late vegetative state): 1 = White 2 = Purple lines 3 = Purple1 SHAPE: 1 = Acute to acuminate 2 = 2-Cleft 3 = Truncate1 COLLAR COLOR (late vegetative stage): 1 = Pale green 2 = Green 3 = Purple1 AURICLE COLOR (late vegetative stage): 1 = Pale green 2 = Purple

5. PANICLE:

1 6 4 cm LENGTH9 TYPE: 1 = Compact 5 = Intermediate 9 = Open2 SECONDARY BRANCHING: 1 = Absent 2 = Light 3 = Heavy 4 = Clustering3 EXsertION (near maturity): 1 = Less than 90% 2 = 90 - 99% 3 = 100% exerted2 AXIS: 1 = Straight 2 = Droopy1 SHATTERING: 1 = Very low (less than 1%) 3 = Low (1 - 5%) 5 = Moderate (6 - 25%)
7 = Moderately high (26 - 50%) 9 = High (more than 50%)3 THRESHABILITY: 1 = Difficult 2 = Intermediate 3 = Easy

6. GRAIN (Spikelet):

200100058

- 1 AWNS (after full heading): 0 = Absent 1 = Short and partly awned 5 = Short and fully awned
7 = Long and partly awned 9 = Long and fully awned
- 2 APICULUS COLOR (at maturity): 1 = White 2 = Straw 3 = Brown (tawny) 4 = Red
5 = Red apex 6 = Purple 7 = Purple apex
- 1 STIGMA COLOR: 1 = White 2 = Light green 3 = Yellow 4 = Light purple 5 = Purple
- 0 LEMMA AND PALEA COLOR (at maturity):
0 = Straw 1 = Gold and/or gold furrows on straw background 2 = Brown spots on straw (piebald)
3 = Brown furrows on straw 4 = Brown (tawny) 5 = Reddish to light purple
6 = Purple spots on straw 7 = Purple furrows on straw 8 = Purple
9 = Black 10 = White
- 2 LEMMA AND PALEA PUBESCENCE: 1 = Glabrous 2 = Hairs on lemma keel 3 = Hairs on upper portion
4 = Short hairs 5 = Long hairs (velvety)
- 1 SPIKELET STERILITY (at maturity): 1 = Highly fertile (>90%) 3 = Fertile (75-90%) 5 = Partly sterile (50-74%)
7 = Highly sterile (<50% to trace) 9 = Completely sterile (0%)

7. GRAIN (Seed):

- 2 SEED COAT (bran) COLOR: 1 = White 2 = Light brown 3 = Speckled brown 4 = Brown
5 = Red 6 = Variable purple 7 = Purple
- 1 ENDOSPERM TYPE: 1 = Nonglutinous (nonwaxy) 2 = Glutinous (waxy) 3 = Indeterminate
- 1 ENDOSPERM TRANSLUCENCY: 1 = Clear 5 = Intermediate 9 = Opaque
- 1 ENDOSPERM CHALKINESS: 0 = None 1 = Small (less than 10% of sample)
5 = Medium (10-20% of sample) 9 = Large (more than 20% of sample)
- 0 SCENT (Aroma): 0 = Nonscented 1 = Lightly scented 2 = Scented

SHAPE CLASS (length/width ratio):

- 2 PADDY 1 = Short (2.2:1 and less) 2 = Medium (2.3:1 to 3.3:1) 3 = Long (3.4:1 and more)
- 2 BROWN 1 = Short (2.0:1 and less) 2 = Medium (2.1:1 to 3.0:1) 3 = Long (3.1:1 and more)
- 2 MILLED 1 = Short (1.9:1 and less) 2 = Medium (2.0:1 to 2.9:1) 3 = Long (3.0:1 and more)

MEASUREMENTS:

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (grams)
Paddy	8.3	3.3		2.52	29.2
Brown	6.4	2.8		2.29	25.2
Milled	6.0	2.6		2.31	22.0

- 19.4 Milling quality (% hulls) 61.8 Milling yield (% whole kernel (head) rice to rough rice)
- 6.6 % Protein 14.7 % Amylose

Alkali Spreading value: 6 1.5% KOH Solution 6.4 1.7% KOH Solution

7. GRAIN (Seed): (continued)

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7 GELATINIZATION TEMPERATURE TYPE: 1 = High 5 = Intermediate 7 = Low

Amylographic Paste Viscosity (Brabender Units)

Peak Hot Paste Cooled Paste 'Breakdown' 'Setback'

258217293

8. RESISTANCE TO LOW TEMPERATURE:

2 GERMINATION AND SEEDLING VIGOR: 1 = Low 2 = Medium 3 = High

3 FLOWERING (Spikelet fertility): 1 = Low 2 = Medium 3 = High

9. SEEDLING VIGOR NOT RELATED TO LOW TEMPERATURE:

3 VIGOR: 1 = Low 2 = Medium 3 = High

10. BLAST RESISTANCE (*Pyricularia Oryzae*). (International races found under references)

0 = Immune 1 = Resistant 3 = Moderately resistant 5 = Intermediate 7 = Moderately susceptible 9 = Susceptible

Group	IB					IC		ID	IE		IG	IH
Number	1	5	45	49	54	1	17	1	13	1	1	1
Resistance	—	—	—	—	—	—	—	—	—	—	<u>7</u>	—

11. RESISTANCE TO OTHER DISEASES:

0 = Immune 1 = Resistant 3 = Moderately resistant 5 = Intermediate 7 = Moderately susceptible 9 = Susceptible

<u> </u> Narrow Brown Leaf Spot <i>Cercospora oryzae</i>	<u>5</u> Aggregate Sheath Spot <i>Rhizoctonia oryzae-sativae</i>
<u> </u> Leaf Smut <i>Entyloma oryzae</i>	<u> </u> Straight Head
<u> </u> Brown Leaf Spot <i>Helminthosporium oryzae</i> (= <i>Bipolaris oryzae</i>) (= <i>Drechslera oryzae</i>)	<u> </u> Kernel Smut <i>Neovossia horrida</i> (= <i>Tilletia barclayana</i>)
<u> </u> Leaf Scald <i>Gerlachia oryzae</i>	<u> </u> White Tip Nematode <i>Aphelenchoides besseyi</i>
<u> </u> Hoja Blanca Virus	<u>5</u> Stem Rot <i>Sclerotium oryzae</i>
<u> </u> Sheath Rot <i>Sarocladium oryzae</i>	
<u> </u> Pythium Seedling Blight <i>Pythium</i> sp.	<u> </u> Bacterial Blight <i>Xanthomonas campestris</i> pv. <i>oryzae</i>
<u> </u> Sheath Spot <i>Rhizoctonia oryzae</i>	<u> </u> Sheath Blight <i>Rhizoctonia solani</i>
<u> </u> Other: _____	

12. INSECT RESISTANCE:

0 = Immune 1 = Resistant 3 = Moderately resistant 5 = Intermediate 7 = Moderately susceptible 9 = Susceptible

<u> </u> Grasshopper	<u> </u> Rice Stink Bug <i>Oebalus pugnax</i>
<u> </u> Rice Leafhopper	<u> </u> Swarm Caterpillar
<u> </u> Rice Hispa	<u>9</u> Rice Water Weevil <i>Lissorhoptrus oryzophilus</i>
<u> </u> Rice Midge	<u> </u> Rice Stalk Borer <i>Chilo plejadellus</i>
<u> </u> Least Skipper	<u> </u> Sugarcane Borer <i>Diatraea saccharalis</i>

1-y
13. OTHER DESCRIPTORS: If there are other characters that describe this variety, please indicate below: 200100058

REFERENCES

1. C. R. Adair *et al.* 1972. Rice in the United States: Varieties and Production. USDA Handbook No. 289 (Rev.), 124 pp.
 2. J. G. Atkins *et al.* 1967. An International Set of Rice Varieties for Differentiating Race of *Pyricularia Oryzae*. *Phytopath.* 57:297-301.
 3. IBPGR-IRRI Rice Advisory Committee. 1980. Descriptors for Rice *Oryza sativa* L.). International Rice Research Institute. 21 pp.
 4. K. C. Ling and S. H. Ou, 1969. Standardization of the International Race Numbers of *Pyricularia Oryzae*. *Phytopath.* 59:339-342.
 5. B. D. Webb *et al.* 1985. Utilization Characteristics and Qualities of United States Rice. In Proceedings on Rice Grain Quality and Marketing. International Rice Research Institute (IRRI), Los Banos, Philippines. p. 25-35.
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EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) California Cooperative Rice Research Foundation, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 94-Y-615	3. VARIETY NAME M-205
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) Rice Experiment Station P. O. Box 306 Biggs, CA 95917-0306	5. TELEPHONE (include area code) 530-868-5481	6. FAX (include area code) 530-868-1730
7. PVPO NUMBER 200100058		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? ☒ YES ☐ NO
If no, give name of country

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

M-205 was developed by Dr. Carl W. Johnson who is a plant breeder employed by the California Cooperative Rice Research Foundation, Inc. (CCRRF).

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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